RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____08/485,943B_____

Source: _____J FW016_____

Date Processed by STIC: _____10/11/2005_____

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: ___08/485,943 B___   CRF Edit Date: 10/11/2005
                                       Edited by: ___DA___

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence
     text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

     _____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID
     NO's edited:

     _____

____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

     _____

____ Moved responses to same line as heading/numeric identifier, specifically:

     _____

____ Other: Corrected Seq ID 99 for
     numeric Identifier <400>

                                            Revised 09/09/2003

IFW16

RAW SEQUENCE LISTING   DATE: 10/11/2005
PATENT APPLICATION: US/08/485,943B   TIME: 14:25:33

Input Set : A:\PTO.da.txt
Output Set: N:\CRF4\10112005\H485943B.raw

SEQUENCE LISTING
```
 4  (1) GENERAL INFORMATION:
 6        (i)  APPLICANT: THE ROCKEFELLER UNIVERSITY
 8       (ii)  TITLE OF INVENTION: MODULATORS OF BODY WEIGHT, CORRESPONDING NUCLEIC
 9                                 ACIDS AND PROTEINS, AND DIAGNOSTIC AND THERAPEUTIC USES
THEREOF
11      (iii)  NUMBER OF SEQUENCES: 100
13       (iv)  CORRESPONDENCE ADDRESS:
14             (A) ADDRESSEE: Klauber & Jackson
15             (B) STREET: 411 Hackensack Avenue
16             (C) CITY: Hackensack
17             (D) STATE: New Jersey
18             (E) COUNTRY: USA
19             (F) ZIP: 07601
21        (v)  COMPUTER READABLE FORM:
22             (A) MEDIUM TYPE: Floppy disk
23             (B) COMPUTER: IBM PC compatible
24             (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25             (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
27       (vi)  CURRENT APPLICATION DATA:
C--> 28             (A) APPLICATION NUMBER: US/08/485,943B
C--> 29             (B) FILING DATE: 07-Jun-1995
W--> 45             (C) CLASSIFICATION:
42      (vii)  PRIOR APPLICATION DATA:
33             (A) APPLICATION NUMBER: 08/438,431
34             (B) FILING DATE: May 10, 1995
38             (A) APPLICATION NUMBER: 08/347,563
39             (B) FILING DATE: November 30, 1994
43             (A) APPLICATION NUMBER: 08/292,345
44             (B) FILING DATE: August 17, 1994
47     (viii)  ATTORNEY/AGENT INFORMATION:
48             (A) NAME: Jackson Esq., David A.
49             (B) REGISTRATION NUMBER: 26,742
50             (C) REFERENCE/DOCKET NUMBER: 600-1-087 CIP2I
52       (ix)  TELECOMMUNICATION INFORMATION:
53             (A) TELEPHONE: 201 487-5800
54             (B) TELEFAX: 201 343-1684
55             (C) TELEX: 133521
57  (2) INFORMATION FOR SEQ ID NO: 1:
59        (i)  SEQUENCE CHARACTERISTICS:
60             (A) LENGTH: 2793 base pairs
61             (B) TYPE: nucleic acid
62             (C) STRANDEDNESS: double
63             (D) TOPOLOGY: linear
```

RAW SEQUENCE LISTING   DATE: 10/11/2005
PATENT APPLICATION: US/08/485,943B   TIME: 14:25:33

Input Set : **A:\PTO.da.txt**
Output Set: **N:\CRF4\10112005\H485943B.raw**

```
65      (ii) MOLECULE TYPE: DNA (genomic)
66            (A) DESCRIPTION: Murine ob cDNA
68     (iii) HYPOTHETICAL: NO
70      (iv) ANTI-SENSE: NO
72      (vi) ORIGINAL SOURCE:
73            (A) ORGANISM: Murine
75      (ix) FEATURE:
76            (A) NAME/KEY: CDS
77            (B) LOCATION: 57..560
80      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
82 GGATCCCTGC TCCAGCAGCT GCAAGGTGCA AGAAGAAGAA GATCCCAGGG AGGAAA         56
84 ATG TGC TGG AGA CCC CTG TGT CGG TTC CTG TGG CTT TGG TCC TAT CTG      104
85 Met Cys Trp Arg Pro Leu Cys Arg Phe Leu Trp Leu Trp Ser Tyr Leu
86  1               5                  10                  15
88 TCT TAT GTT CAA GCA GTG CCT ATC CAG AAA GTC CAG GAT GAC ACC AAA      152
89 Ser Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
90          20                  25                  30
92 ACC CTC ATC AAG ACC ATT GTC ACC AGG ATC AAT GAC ATT TCA CAC ACG      200
93 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
94          35                  40                  45
96 CAG TCG GTA TCC GCC AAG CAG AGG GTC ACT GGC TTG GAC TTC ATT CCT      248
97 Gln Ser Val Ser Ala Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro
98      50                  55                  60
100 GGG CTT CAC CCC ATT CTG AGT TTG TCC AAG ATG GAC CAG ACT CTG GCA     296
101 Gly Leu His Pro Ile Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala
102 65                  70                  75                  80
104 GTC TAT CAA CAG GTC CTC ACC AGC CTG CCT TCC CAA AAT GTG CTG CAG     344
105 Val Tyr Gln Gln Val Leu Thr Ser Leu Pro Ser Gln Asn Val Leu Gln
106                  85                  90                  95
108 ATA GCC AAT GAC CTG GAG AAT CTC CGA GAC CTC CTC CAT CTG CTG GCC     392
109 Ile Ala Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala
110                  100                 105                 110
112 TTC TCC AAG AGC TGC TCC CTG CCT CAG ACC AGT GGC CTG CAG AAG CCA     440
113 Phe Ser Lys Ser Cys Ser Leu Pro Gln Thr Ser Gly Leu Gln Lys Pro
114          115                 120                 125
116 GAG AGC CTG GAT GGC GTC CTG GAA GCC TCA CTC TAC TCC ACA GAG GTG     488
117 Glu Ser Leu Asp Gly Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val
118      130                 135                 140
120 GTG GCT TTG AGC AGG CTG CAG GGC TCT CTG CAG GAC ATT CTT CAA CAG     536
121 Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Ile Leu Gln Gln
122 145                 150                 155                 160
124 TTG GAT GTT AGC CCT GAA TGC TGA AGTTTCAAAG GCCACCAGGC TCCCAAGA      588
125 Leu Asp Val Ser Pro Glu Cys  *
126                  165
128 ATCATGTAGA GGGAAGAAAC CTTGGCTTCC AGGGGTCTTC AGGAGAAGAG AGCCATGTGC   648
130 ACACATCCAT CATTCATTTC TCTCCCTCCT GTAGACCACC CATCCAAAGG CATGACTCCA   708
132 CAATGCTTGA CTCAAGTTAT CCACACAACT TCATGAGCAC AAGGAGGGGC CAGCCTGCAG   768
134 AGGGGACTCT CACCTAGTTC TTCAGCAAGT AGAGATAAGA GCCATCCCAT CCCCTCCATG   828
136 TCCCACCTGC TCCGGGTACA TGTTCCTCCG TGGGTACACG CTTCGCTGCG GCCCAGGAGA   888
```

```
138 GGTGAGGTAG GGATGGGTAG AGCCTTTGGG CTGTCTCAGA GTCTTTGGGA GCACCGTGAA     948
140 GGCTGCATCC ACACACAGCT GGAAACTCCC AAGCAGCACA CGATGGAAGC ACTTATTTAT    1008
142 TTATTCTGCA TTCTATTTTG GATGGATCTG AAGCAAGGCA TCAGCTTTTT CAGGCTTTGG    1068
144 GGGTCAGCCA GGATGAGGAA GGCTCCTGGG GTGCTGCTTT CAATCCTATT GATGGGTCTG    1128
146 CCCGAGGCAA ACCTAATTTT TGAGTGACTG GAAGGAAGGT TGGGATCTTC CAAACAAGAG    1188
148 TCTATGCAGG TAGCGCTCAA GATTGACCTC TGGTGACTGG TTTTGTTTCT ATTGTGACTG    1248
150 ACTCTATCCA AACACGTTTG CAGCGGCATT GCCGGGAGCA TAGGCTAGGT TATTATCAAA    1308
152 AGCAGATGAA TTTTGTCAAG TGTAATATGT ATCTATGTGC ACCTGAGGGT AGAGGATGTG    1368
154 TTAGAGGGAG GGTGAAGGAT CCGGAAGTGT TCTCTGAATT ACATATGTGT GGTAGGCTTT    1428
156 TCTGAAAGGG TGAGGCATTT TCTTACCTCT GTGGCCACAT AGTGTGGCTT TGTGAAAAGG    1488
158 ACAAAGGAGT TGACTCTTTC CGGAACATTT GGAGTGTACC AGGCACCCTT GGAGGGGCTA    1548
160 AAGCTACAGG CCTTTTGTTG GCATATTGCT GAGCTCAGGG AGTGAGGGCC CCACATTTGA    1608
162 GACAGTGAGC CCCAAGAAAA GGGTCCCTGG TGTAGATCTC CAAGGTTGTC CAGGGTTGAT    1668
164 CTCACAATGC GTTTCTTAAG CAGGTAGACG TTTGCATGCC AATATGTGGT TCTCATCTGA    1728
166 TTGGTTCATC CAAAGTAGAA CCCTGTCTCC CACCCATTCT GTGGGGAGTT TTGTTCCAGT    1788
168 GGGAATGAGA AATCACTTAG CAGATGGTCC TGAGCCCTGG GCCAGCACTG CTGAGGAAGT    1848
170 GCCAGGGCCC CAGGCCAGGC TGCCAGAATT GCCCTTCGGG CTGGAGGATG AACAAAGGGG    1908
172 CTTGGGTTTT TCCATCACCC CTGCACCCTA TGTCACCATC AAACTGGGGG GCAGATCAGT    1968
174 GAGAGGACAC TTGATGGAAA GCAATACACT TTAAGACTGA GCACAGTTTC GTGCTCAGCT    2028
176 CTGTCTGGTG CTGTGAGCTA GAGAAGCTCA CCACATACAT ATAAAAATCA GAGGCTCATG    2088
178 TCCCTGTGGT TAGACCCTAC TCGCGGCGGT GTACTCCACC ACAGCAGCAC CGCACCGCTG    2148
180 GAAGTACAGT GCTGTCTTCA ACAGGTGTGA AAGAACCTGA GCTGAGGGTG ACAGTGCCCA    2208
182 GGGGAACCCT GCTTGCAGTC TATTGCATTT ACATACCGCA TTTCAGGGCA CATTAGCATC    2268
184 CACTCCTATG GTAGCACACT GTTGACAATA GGACAAGGGA TAGGGGTTGA CTATCCCTTA    2328
186 TCCAAAATGC TTGGGACTAG AAGAGTTTTG GATTTTAGAG TCTTTTCAGG CATAGGTATA    2388
188 TTTGAGTATA TATAAAATGA GATATCTTGG GGATGGGGCC CAAGTATAAA CATGAAGTTC    2448
190 ATTTATATTT CATAATACCG TATAGACACT GCTTGAAGTG TAGTTTTATA CAGTGTTTTA    2508
192 AATAACGTTG TATGCATGAA AGACGTTTTT ACAGCATGAA CCTGTCTACT CATGCCAGCA    2568
194 CTCAAAAACC TTGGGGTTTT GGAGCAGTTT GGATCTTGGG TTTTCTGTTA AGAGATGGTT    2628
196 AGCTTATACC TAAAACCATA ATGGCAAACA GGCTGCAGGA CCAGACTGGA TCCTCAGCCC    2688
198 TGAAGTGTGC CCTTCCAGCC AGGTCATACC CTGTGGAGGT GAGCGGGATC AGGTTTTGTG    2748
200 GTGCTAAGAG AGGAGTTGGA GGTAGATTTT GGAGGATCTG AGGGC                    2793
203 (2) INFORMATION FOR SEQ ID NO: 2:
205     (i) SEQUENCE CHARACTERISTICS:
206         (A) LENGTH: 167 amino acids
207         (B) TYPE: amino acid
208         (D) TOPOLOGY: linear
210     (ii) MOLECULE TYPE: protein
211         (A) DESCRIPTION: Murine ob polypeptide
213     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
215 Met Cys Trp Arg Pro Leu Cys Arg Phe Leu Trp Leu Trp Ser Tyr Leu
216  1               5                  10                  15
218 Ser Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
219             20                  25                  30
221 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
222         35                  40                  45
224 Gln Ser Val Ser Ala Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro
225     50                  55                  60
227 Gly Leu His Pro Ile Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala
```

```
          RAW SEQUENCE LISTING              DATE: 10/11/2005
          PATENT APPLICATION:  US/08/485,943B    TIME: 14:25:33

          Input Set : A:\PTO.da.txt
          Output Set: N:\CRF4\10112005\H485943B.raw
```

```
228  65                    70              75                 80
230  Val Tyr Gln Gln Val Leu Thr Ser Leu Pro Ser Gln Asn Val Leu Gln
231              85                  90                 95
233  Ile Ala Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala
234              100                105                110
236  Phe Ser Lys Ser Cys Ser Leu Pro Gln Thr Ser Gly Leu Gln Lys Pro
237          115                120                125
239  Glu Ser Leu Asp Gly Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val
240      130                135                140
242  Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Ile Leu Gln Gln
243  145                150                155                160
245  Leu Asp Val Ser Pro Glu Cys
246                  165
249  (2)  INFORMATION FOR SEQ ID NO: 3:
251       (i) SEQUENCE CHARACTERISTICS:
252            (A)  LENGTH: 700 base pairs
253            (B)  TYPE: nucleic acid
254            (C)  STRANDEDNESS: double
255            (D)  TOPOLOGY: linear
257       (ii) MOLECULE TYPE: cDNA
258            (A)  DESCRIPTION: Human ob cDNA where N represents any nucleotide
260      (iii) HYPOTHETICAL: NO
262       (iv) ANTI-SENSE: NO
264       (vi) ORIGINAL SOURCE:
265            (A)  ORGANISM: Human
267       (ix) FEATURE:
268            (A)  NAME/KEY: CDS
269            (B)  LOCATION: 46..546
272       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
274  NNNGNNGTTG CAAGGCCCAA GAAGCCCANN NTCCTGGGAA GGAAA ATG CAT TGG         54
275                                                  Met His Trp
276                                                   1
278  GGA ACC CTG TGC GGA TTC TTG TGG CTT TGG CCC TAT CTT TTC TAT GTC     102
279  Gly Thr Leu Cys Gly Phe Leu Trp Leu Trp Pro Tyr Leu Phe Tyr Val
280          5                  10                 15
282  CAA GCT GTG CCC ATC CAA AAA GTC CAA GAT GAC ACC AAA ACC CTC ATC     150
283  Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys Thr Leu Ile
284  20                  25                 30                 35
286  AAG ACA ATT GTC ACC AGG ATC AAT GAC ATT TCA CAC ACG CAG TCA GTC     198
287  Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr Gln Ser Val
288              40                 45                 50
290  TCC TCC AAA CAG AAA GTC ACC GGT TTG GAC TTC ATT CCT GGG CTC CAC     246
291  Ser Ser Lys Gln Lys Val Thr Gly Leu Asp Phe Ile Pro Gly Leu His
292              55                 60                 65
294  CCC ATC CTG ACC TTA TCC AAG ATG GAC CAG ACA CTG GCA GTC TAC CAA     294
295  Pro Ile Leu Thr Leu Ser Lys Met Asp Gln Thr Leu Ala Val Tyr Gln
296              70                 75                 80
298  CAG ATC CTC ACC AGT ATG CCT TCC AGA AAC GTG ATC CAA ATA TCC AAC     342
299  Gln Ile Leu Thr Ser Met Pro Ser Arg Asn Val Ile Gln Ile Ser Asn
```

RAW SEQUENCE LISTING   DATE: 10/11/2005
PATENT APPLICATION: US/08/485,943B   TIME: 14:25:33

Input Set : **A:\PTO.da.txt**
Output Set: **N:\CRF4\10112005\H485943B.raw**

```
300       85                    90                   95
302 GAC CTG GAG AAC CTC CGG GAT CTT CTT CAC GTG CTG GCC TTC TCT AAG          390
303 Asp Leu Glu Asn Leu Arg Asp Leu Leu His Val Leu Ala Phe Ser Lys
304 100                 105                 110                 115
306 AGC TGC CAC TTG CCC TGG GCC AGT GGC CTG GAG ACC TTG GAC AGC CTG          438
307 Ser Cys His Leu Pro Trp Ala Ser Gly Leu Glu Thr Leu Asp Ser Leu
308             120                 125                 130
310 GGG GGT GTC CTG GAA GCT TCA GGC TAC TCC ACA GAG GTG GTG GCC CTG          486
311 Gly Gly Val Leu Glu Ala Ser Gly Tyr Ser Thr Glu Val Val Ala Leu
312             135                 140                 145
314 AGC AGG CTG CAG GGG TCT CTG CAG GAC ATG CTG TGG CAG CTG GAC CTC          534
315 Ser Arg Leu Gln Gly Ser Leu Gln Asp Met Leu Trp Gln Leu Asp Leu
316             150                 155                 160
318 AGC CCT GGG TGC TGAGGCCTT GAAGGTCACT CTTCCTGCAA GGACTNACGT              585
319 Ser Pro Gly Cys
320             165
322 TAAGGGAAGG AACTCTGGTT TCCAGGTATC TCCAGGATTG AAGAGCATTG CATGGACACC        645
324 CCTTATCCAG GACTCTGTCA ATTTCCCTGA CTCCTCTAAG CCACTCTTCC AAAGG            700
327 (2) INFORMATION FOR SEQ ID NO: 4:
329        (i) SEQUENCE CHARACTERISTICS:
330             (A) LENGTH: 167 amino acids
331             (B) TYPE: amino acid
332             (D) TOPOLOGY: linear
334       (ii) MOLECULE TYPE: protein
335             (A) DESCRIPTION: Human ob polypeptide
337       (vi) ORIGINAL SOURCE:
339       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
341 Met His Trp Gly Thr Leu Cys Gly Phe Leu Trp Leu Trp Pro Tyr Leu
342 1                5                   10                  15
344 Phe Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
345                 20                  25                  30
347 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
348             35                  40                  45
350 Gln Ser Val Ser Ser Lys Gln Lys Val Thr Gly Leu Asp Phe Ile Pro
351       50                  55                  60
353 Gly Leu His Pro Ile Leu Thr Leu Ser Lys Met Asp Gln Thr Leu Ala
354 65                  70                  75                  80
356 Val Tyr Gln Gln Ile Leu Thr Ser Met Pro Ser Arg Asn Val Ile Gln
357                 85                  90                  95
359 Ile Ser Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Val Leu Ala
360             100                 105                 110
363 Phe Ser Lys Ser Cys His Leu Pro Trp Ala Ser Gly Leu Glu Thr Leu
364             115                 120                 125
367 Asp Ser Leu Gly Gly Val Leu Glu Ala Ser Gly Tyr Ser Thr Glu Val
368       130                 135                 140
370 Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Met Leu Trp Gln
371 145                 150                 155                 160
374 Leu Asp Leu Ser Pro Gly Cys
375             165
```

VERIFICATION SUMMARY   DATE: 10/11/2005
PATENT APPLICATION: US/08/485,943B   TIME: 14:25:34

Input Set : **A:\PTO.da.txt**
Output Set: **N:\CRF4\10112005\H485943B.raw**

```
L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:35 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)
L:40 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)
L:45 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)
L:436 M:220 C: Keyword misspelled or invalid format, [(A) DESCRIPTION:]
L:509 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
L:529 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
L:571 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
L:651 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13
L:673 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14
L:695 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15
L:717 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16
L:830 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=21
L:1128 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29
L:1148 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30
L:1170 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31
L:1192 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32
L:1214 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=33
L:1234 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=34
L:1255 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35
L:1276 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=36
L:1297 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=37
L:1339 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=39
L:1362 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=40
L:1385 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=41
L:1407 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=42
L:1430 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=43
L:1453 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=44
L:1474 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=45
L:1496 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=46
L:1519 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=47
L:1541 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=48
L:1564 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=49
L:1587 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=50
L:1610 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=51
L:1633 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=52
L:1655 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=53
L:1678 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=54
L:1701 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=55
L:1724 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=56
L:1747 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=57
L:1770 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=58
L:1793 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=59
L:1816 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=60
L:1839 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=61
L:1862 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=62
L:1885 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=63
```

VERIFICATION SUMMARY   DATE: 10/11/2005
PATENT APPLICATION: US/08/485,943B   TIME: 14:25:34

Input Set : A:\PTO.da.txt
Output Set: N:\CRF4\10112005\H485943B.raw

L:1907 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=64
L:1930 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=65
L:1953 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=66
L:1977 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=67
L:2000 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=68
L:2021 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=69
L:2044 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=70
L:2067 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=71
L:2090 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=72
L:2113 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=73
L:2136 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=74

Raw Sequence Listing before editing,
for reference only

RAW SEQUENCE LISTING   DATE: 10/05/2005
PATENT APPLICATION: US/08/485,943B TIME: 11:48:22

Input Set : A:\PTO.RJ.txt
Output Set: N:\CRF4\10052005\H485943B.raw

SEQUENCE LISTING
4 (1) GENERAL INFORMATION:
6   (i) APPLICANT: THE ROCKEFELLER UNIVERSITY
8 (ii) TITLE OF INVENTION: MODULATORS OF BODY WEIGHT, CORRESPONDING NUCLEIC
9   ACIDS AND PROTEINS, AND DIAGNOSTIC AND THERAPEUTIC USES
THEREOF
11 (iii) NUMBER OF SEQUENCES: 100
13 (iv) CORRESPONDENCE ADDRESS:
14   (A) ADDRESSEE: Klauber & Jackson
15   (B) STREET: 411 Hackensack Avenue
16   (C) CITY: Hackensack
17   (D) STATE: New Jersey
18   (E) COUNTRY: USA
19   (F) ZIP: 07601
21 (v) COMPUTER READABLE FORM:
22   (A) MEDIUM TYPE: Floppy disk
23   (B) COMPUTER: IBM PC compatible
24   (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25   (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
27 (vi) CURRENT APPLICATION DATA:
C--> 28   **(A) APPLICATION NUMBER: US/08/485,943B**
C--> 29   **(B) FILING DATE: 07-Jun-1995**
W--> 45   **(C) CLASSIFICATION:**
42 (vii) PRIOR APPLICATION DATA:
33   (A) APPLICATION NUMBER: 08/438,431
34   (B) FILING DATE: May 10, 1995
38   (A) APPLICATION NUMBER: 08/347,563
39   (B) FILING DATE: November 30, 1994
43   (A) APPLICATION NUMBER: 08/292,345
44   (B) FILING DATE: August 17, 1994
47 (viii) ATTORNEY/AGENT INFORMATION:
48   (A) NAME: Jackson Esq., David A.
49   (B) REGISTRATION NUMBER: 26,742
50   (C) REFERENCE/DOCKET NUMBER: 600-1-087 CIP2I
52 (ix) TELECOMMUNICATION INFORMATION:
53   (A) TELEPHONE: 201 487-5800
54   (B) TELEFAX: 201 343-1684
55   (C) TELEX: 133521

ERRORED SEQUENCES

2828 (2) INFORMATION FOR SEQ ID NO: 99:
2830   (i) SEQUENCE CHARACTERISTICS:

Does Not Comply Corrected Diskette Needed (pg-2)

RAW SEQUENCE LISTING   DATE: 10/05/2005
PATENT APPLICATION: US/08/485,943B   TIME: 11:48:22

Input Set : A:\PTO.RJ.txt
Output Set: N:\CRF4\10052005\H485943B.raw

```
2831          (A) LENGTH: 20 amino acids
2832          (B) TYPE: amino acid
2833          (D) TOPOLOGY: linear                    99
2835      (ii) MOLECULE TYPE: peptide
2837       (v) FRAGMENT TYPE: N-terminal
E--> 2840      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: (98)
2842 Met Gly Ser Ser His His His His His His Ser Ser Gly Leu Val Pro
2843   1               5                  10               15
2845 Arg Gly Ser Pro
2846              20
```

VERIFICATION SUMMARY   DATE: 10/05/2005
PATENT APPLICATION: US/08/485,943B   TIME: 11:48:23

Input Set : A:\PTO.RJ.txt
Output Set: N:\CRF4\10052005\H485943B.raw

```
L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:35 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)
L:40 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)
L:45 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)
L:436 M:220 C: Keyword misspelled or invalid format, [(A) DESCRIPTION:]
L:509 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
L:529 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
L:571 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
L:651 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13
L:673 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14
L:695 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15
L:717 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16
L:830 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=21
L:1128 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29
L:1148 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30
L:1170 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31
L:1192 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32
L:1214 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=33
L:1234 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=34
L:1255 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35
L:1276 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=36
L:1297 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=37
L:1339 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=39
L:1362 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=40
L:1385 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=41
L:1407 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=42
L:1430 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=43
L:1453 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=44
L:1474 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=45
L:1496 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=46
L:1519 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=47
L:1541 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=48
L:1564 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=49
L:1587 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=50
L:1610 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=51
L:1633 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=52
L:1655 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=53
L:1678 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=54
L:1701 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=55
L:1724 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=56
L:1747 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=57
L:1770 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=58
L:1793 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=59
L:1816 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=60
L:1839 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=61
L:1862 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=62
L:1885 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=63
```

```
L:1907 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=64
L:1930 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=65
L:1953 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=66
L:1977 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=67
L:2000 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=68
L:2021 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=69
L:2044 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=70
L:2067 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=71
L:2090 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=72
L:2113 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=73
L:2136 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=74
L:2840 M:212 E: (34) Invalid or duplicate Sequence ID Number, Value=[98:]
```